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*Being the Proceedings of the
Tenth International Cancer Congress*

Volume I
A. Cellular & Molecular
Mechanisms of Carcinogenesis
B. Regulation of Gene Expression

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WITH THE COOPERATION OF THE
OFFICIALS OF THE TENTH INTERNATIONAL CANCER CONGRESS

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Foreword

THE TENTH INTERNATIONAL Cancer Congress, held in Houston, Texas, U.S.A., May 22 through May 29, 1970, was attended by 6,018 physicians and scientists from throughout the world. Of these, 1,957 participated in the sessions. The speakers, representing 72 different countries, presented 1,740 papers; abstracts of 1,342 proffered papers appeared in the book of *Abstracts*, copies of which were distributed at the Congress. The remaining 398 papers appear *in toto* in the five volumes comprising this set of Proceedings. These 1,740 papers were virtually all of the papers submitted for presentation; less than a dozen titles were rejected. Consequently, one might reasonably assume that these papers and abstracts comprise a comprehensive survey of the international status of the science and art of oncology as it existed in the spring of 1970.

The papers, speeches, and lectures may be divided into seven general groups:

1. Congress Ceremonies
2. Preliminary Special Sessions of the Congress
3. Main Congress Panels
4. Postgraduate Course Panels
5. Proffered Paper Sessions
6. Rapporteur Reports
7. The Harold Dorn Lecture

The sequence in which these various presentations were made, their authors, and the organization of the Congress may be found in the *Program* of the Tenth International Cancer Congress (Library of Congress Card Catalogue No. 42-43259). The members of the Congress, i.e. those who registered at the meeting, and the names and addresses of most of the persons who presented papers may be found in the *Members* of the Tenth International Cancer Congress (Library of Congress Card Catalogue No. 73-124104). Abstracts of papers presented at the Proffered Paper Sessions (No. 5 in the general groups listed above) are contained in the *Abstracts* of the Tenth International Cancer Congress (Library of Congress Card Catalogue No. 70-124113). All three of these volumes were published by The Medical Arts Publishing Co., 1603 Oakdale St., Houston, Texas, U.S.A. 77004.

The papers published in the 5 volumes comprising the published

proceedings include the Congress Ceremonies (No. 1 in the above list), the Preliminary Special Sessions (No. 2), the Main Congress Panels (No. 3), the Postgraduate Course Panels (No. 4), the Rapporteur Reports (No. 6), and The Harold Dorn Lecture (No. 7). The papers have not been published in the order in which they were given at the Congress, since during the Congress several presentations occurred simultaneously. Rather, in these volumes, the papers, including the Rapporteur Reports and The Harold Dorn Lecture, have been assembled into groups of related subject matter.

Because of the overwhelming number of citations contained in the reference lists submitted by the authors, it was not possible to verify the citations or to complete those submitted in abbreviated form. Therefore, the reference lists have been published in much the same way in which they were received. In the few instances in which no reference list was submitted, or when the list was excessively lengthy, an editorial note has been added, directing the reader to apply directly to the author for a list of the literature cited.—Editors.

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Tenth International Cancer Congress Ceremonies

OPENING ADDRESSES

N. N. BLOKHIN: *President, International Union Against Cancer.* Dr. Blokhin opened the Tenth International Cancer Congress by welcoming the members and participants to the Congress, and by expressing his acknowledgment of the endeavors of the National Organizing Committee and appreciation of the contributors to the funding of the Congress. He expressed his belief in the continuing success of the International Union Against Cancer through the cooperative efforts of all of the nations represented, in basic research, patient care, and educational programs directed toward the goal of cancer control.

Due to a technical failure of the recording equipment employed at the Congress, the full text of Dr. Blokhin's address is not available.

SIR ALEXANDER HADDOW: *Past President, International Union Against Cancer.* Dr. Lee Clark, Professor Blokhin, Dr. Stanley, Professor Yoshida, Dr. Gardner, Members of the Union, Members of the Congress, Ladies and Gentlemen:

This Tenth International Congress is uniquely welcome to all from our constituent nations beyond these shores, in providing—at long last—a fit opportunity to extend to the United States of America, and indeed to the entire American people, our heartfelt appreciation of the scale and generosity of that vital support which they have lavished upon our Union and upon cancer research throughout the world, over the past generation and more.

The last International Cancer Congress to be held in the United States took place at St. Louis in 1947, under the presidency of Dr. E. V. Cowdry. At that time the affairs of the Union were in parlous disarray, partly due to the War, and from every aspect, financial and otherwise. At St. Louis in 1947 we were accordingly required to reach a clear decision, whether to abandon the Union as no longer viable, or, to resolve to redeem it, to restore it, and to enable it to flourish in its true function. In deciding upon the latter course of action, we were influenced by two main factors: first, our great respect for the pioneer labors of Professor Maisin of Belgium, who from the inauguration of the